Secrets
ABAP
Apex
C
C++
CloudFormation
COBOL
C#
CSS
Flex
Go
HTML
Java
JavaScript
Kotlin
Kubernetes
Objective C
PHP
PL/I
PL/SQL
Python
RPG
Ruby
Scala
Swift
Terraform
Text
TypeScript
T-SQL
VB.NET
VB6
XML

HTML static code analysis

Unique rules to find Bugs, Security Hotspots, and Code Smells in your HTML code

All rules 65 | Bug 24 | Security Hotspot 3 | Code Smell 38

Tags

Search by name...

Table cells should reference their headers
Bug

Tables used for layout should not include semantic markup
Bug

Tables should have headers
Bug

"<html>" element should have a language attribute
Bug

<script>...</script> elements should not be nested
Bug

"<th>" tags should have "id" or "scope" attributes
Bug

"<title>" should be present in all pages
Bug

"<!DOCTYPE>" declarations should appear before "<html>" tags
Bug

Elements deprecated in HTML5 should not be used
Bug

HTML "<table>" should not be used for layout purposes
Code Smell

"aria-label" or "aria-labelledby" attributes should be used to differentiate similar elements
Code Smell

Videos should have subtitles
Code Smell

"<th>" tags should have "id" or "scope" attributes

Analyze your code

Bug | Major | accessibility | wcag2-a

Associating `<table>` headers, i.e. `<th>` elements, with their `<td>` cells enables screen readers to announce the header prior to the data. This considerably increases the accessibility of tables to visually impaired users.

There are two ways of doing it:

- Adding a `scope` attribute to `<th>` headers.
- Adding an `id` attribute to `<th>` headers and a `headers` attribute to every `<td>` element.

It is recommended to add `scope` attributes to `<th>` headers whenever possible. Use `<th id="...">` and `<td headers="...">` only when `<th scope="...">` is not capable of associating cells to their headers. This happens for very complex tables which have headers splitting the data in multiple subtables. See W3C WAI Web Accessibility Tutorials for more information.

Note that complex tables can often be split into multiple smaller tables, which improves the user experience.

This rule raises an issue when a `<th>` element has neither `id` nor `scope` attributes set.

Noncompliant Code Example

```
<table border="1">
  <caption>Contact Information</caption>
  <tr>
    <td></td>
    <th>Name</th>
    <th>Phone#</th>
    <th>City</th>
  </tr>
  <tr>
    <td>1.</td>
    <th>Joel Garner</th>
    <td>412-212-5421</td>
    <td>Pittsburgh</td>
  </tr>
  <tr>
    <td>2.</td>
    <th>Clive Lloyd</th>
    <td>410-306-1420</td>
    <td>Baltimore</td>
  </tr>
</table>
```

Compliant Solution

```
<table border="1">
  <caption>Contact Information</caption>
  <tr>
    <td></td>
    <th scope="col">Name</th>
    <th scope="col">Phone#</th>
    <th scope="col">City</th>
```

Attributes deprecated in HTML5 should not be used

Code Smell

Sections of code should not be commented out

Code Smell

Track uses of "FIXME" tags

Code Smell

Meta tags should not be used to refresh or redirect

Code Smell

Links should not directly target images

Code Smell

"" and "" tags should be used

Bug

"<li>" and "<dt>" item tags should be in "<ul>", "<ol>" or "<dl>" container tags

Bug

Server-side image maps ("ismap" attribute) should not be used

Bug

"<frames>" should have a "title" attribute

Bug

"<fieldset>" tags should contain a "<legend>"

Bug

Flash animations should be embedded

```
  </tr>
  <tr>
    <td>1.</td>
    <th scope="row">Joel Garner</th>
    <td>412-212-5421</td>
    <td>Pittsburgh</td>
  </tr>
  <tr>
    <td>2.</td>
    <th scope="row">Clive Lloyd</th>
    <td>410-306-1420</td>
    <td>Baltimore</td>
  </tr>
</table>
```

or:

```
<table border="1">
  <caption>Contact Information</caption>
  <tr>
    <td></td>
    <th id="name">Name</th>
    <th id="phone">Phone#</th>
    <th id="city">City</th>
  </tr>
  <tr>
    <td>1.</td>
    <th id="person1" headers="name">Joel Garner</th>
    <td headers="phone person1">412-212-5421</td>
    <td headers="city person1">Pittsburgh</td>
  </tr>
  <tr>
    <td>2.</td>
    <th id="person2" headers="name">Clive Lloyd</th>
    <td headers="phone person2">410-306-1420</td>
    <td headers="city person2">Baltimore</td>
  </tr>
</table>
```

Exceptions

This rule is not applied in case of simple tables.

Tables are considered as such when the headers are either all in the first row, or all in the first column. The two conditions must not apply together.

Simple table example:

```
<table border="1">
    <caption>Simple Table 1</caption>
    <tr>
        <th>Name</th>
        <th>Surname</th>
    </tr>
    <tr>
        <td>John</td>
        <td>Doe</td>
    </tr>
</table>
<table border="1">
    <caption>Simple Table 2</caption>
    <tr>
        <th>Name</th>
        <td>John</td>
    </tr>
    <tr>
        <th>Surname</th>
        <td>Doe</td>
    </tr>
</table>
```

See

- WCAG2, 1.3.1 - Info and Relationships
- WCAG2, H43 - Using id and headers attributes to associate data cells with header cells in data tables

Available In:

sonarlint | sonarcloud | sonarqube

© 2008-2022 SonarSource S.A., Switzerland. All content is copyright protected.

SONAR, SONARSOURCE, SONARLINT, SONARQUBE and SONARCLOUD are trademarks of SonarSource S.A. All other trademarks and copyrights are the property of their respective owners. All rights are expressly reserved.
Privacy Policy